

STALWART

Binocular Biological Microscope STM-2053 Series



STM-2053B



STM-2054B

Introduction

STM-2053 series microscopes are specially designed for various microscopy needs such as teaching and clinical diagnosis. It has good optical quality, wide field of view, excellent objective performance, clear and reliable imaging. Ergonomic design provides better comfort and use experience, pays attention to the user's operating habits, starts from the details, and constantly optimizes. Modular design can realize various observation methods such as bright field, dark field, phase contrast, fluorescence, etc., providing more possibilities for your scientific research and exploration. It takes up little space and is very convenient for handling, storage and maintenance, it is the first choice for microscope beginners.

Features

Excellent Image Quality

NIS optical system and optical elements using advanced coating technology make it easy to obtain good quality imaging. Excellent optical system is the guarantee of obtaining plan and clear images. Infinite achromatic semi-plan objective and even plan objective can be used in this microscope. It can provide clear images with high contrast, and the clear range can reach to the edge of the field of view. It also has bright and uniform illumination.

Wide Field of View

STM-2053 series microscopes can achieve the 20mm wide field of view under the 10X eyepiece, with more comprehensive observation field and faster sample observation. The eyepiece adopts the plan and distortion-free design to prevent blurring at the edges of the field of view and stray light.

Realize Various Observation Methods

Bright Field	Dark Field	Phase Contrast	Fluorescence	Simple Polarization
Standard	Standard	Standard	Standard	Standard

Applicable to Any Environment

Anti-mold treatment greatly extends the service life of the microscope. Since the objective, eyepiece and observation tube are all effectively anti-mildew treated, they can ensure continuous clear image and prolong the service life of the microscope. Even working in hot and high humid environment is not affected the working life.

Easy to Store and Transport

STM-2053 series microscopes are small enough to fit into a common classroom cabinet. There is a special carrying handle at the back, and it has light weight, good stability and stable structure. The back panel of the microscope is designed with a hub device, which can effectively store the long power cord, improve the cleanliness of the laboratory, and also reduce the trip accidents caused by the long power cord during transportation. Wooden storage box as an optional accessory can bring great convenience for storage and handling.

External power adapter, safer than ordinary microscopes.

External power adapter with DC5V input, safer than ordinary microscopes.

Ergonomic Design

STM-2053 series microscopes adopt ergonomic design, high eye point, low-hand focusing mechanism, low-hand stage and other ergonomic designs to ensure that users can operate the microscope under the most comfortable conditions and minimize the working fatigue.

Extremely Smooth Nosepiece

The nosepiece adopts a low damping design, high-precision machining ensures smoothness and durability in use. The nosepiece has a rubber ring, which is ergonomic and easy to convert.

Stage Designed for Beginners

The rackless stage prevents users from being scratched by exposed rack during use. The slide clip can be easily operated with one hand. When the upper limit of the stage is locked, accidental contact between the objectives and the slide can be avoided, which can prevent damage to samples and objectives. The coarse focus torque adjustment device can adjust the comfort of use according to personal operating habits.

Binocular head with built-in WIFI digital camera optional

Built-in high-definition HDMI&WIFI digital camera, support 5.0MP picture capture, 1080P video preview and capture. Supporting Android, IOS, windows operating system. The high-definition images under the microscope can be output to external devices in real time, and there is no data cable connection, the operator is more free to move. Observation, analysis and processing of microscopic imaging can be realized in external equipment, including photographing, measurement, image adjustment, storage, processing, etc.

Specification

Item	Specification	STM-2053B	STM-2054B	
Optical System	Infinite Optical System	Standard	Standard	
Eyepiece	WF10×/20mm	Standard	Standard	
Viewing Head	Seidentopf Binocular Head, inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable	Standard	Standard	
	Seidentopf Trinocular Head, inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable	Optional	Optional	
	Seidentopf Binocular Head with built-in USB2.0 digital camera (8.3MP/5.1MP, 30fps), inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable	Optional	Optional	
	Seidentopf Binocular Head with built-in HDMI&WIFI digital camera (5.0MP image capture, 1080P video preview and capture, 30fps), inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable	Optional	Optional	
Objective	Infinite Semi-Plan Achromatic Objectives	4×, NA=0.10, WD=28mm	Standard	Standard
		10×, NA=0.25, WD=5.8mm	Standard	Standard
		40× (S), NA=0.65, WD=0.43mm	Standard	Standard
		100× (S, Oil), NA=1.25, WD=0.13mm	Standard	Standard
	Infinite Plan Achromatic Objectives	2×, NA=0.05, WD=18.3mm	Optional	Optional
		4×, NA=0.10, WD=28mm	Optional	Optional
		10×, NA=0.25, WD=10mm	Optional	Optional
		20×, NA=0.40, WD=5.1mm	Optional	Optional
		40× (S), NA=0.65, WD=0.7mm	Optional	Optional

Specification

	Infinite Plan Fluorescent Objective	4×, NA=0.13, WD=16.3mm	Optional	Optional
		10×, NA=0.30, WD=12.4mm	Optional	Optional
		20×, NA=0.50, WD=1.5mm	Optional	Optional
		40× (S), NA=0.75, WD=0.35mm	Optional	Optional
		100× (S, Oil), NA=1.30, WD=0.13mm	Optional	Optional
Nosepiece	Backward Quintuple Nosepiece		Standard	
	Backward Coded Quintuple Nosepiece			Standard
Stage	Rackless Double Layers Mechanical Stage 150mm×139mm, Moving Range 75mm×52mm		Standard	Standard
Condenser	Abbe Condenser NA1.25		Standard	Standard
	Dark Field Condenser (Dry / Oil)		Optional	Optional
Focusing	Coaxial Coarse and Fine Adjustment, Left hand has Height Limit Lock, Right Hand has Coarse Tension Adjustment Function. Coarse Stroke 37.7mm per Rotation, Fine division 0.002mm, Fine Stroke 0.2mm per Rotation, Moving Range 20mm		Standard	Standard
Illumination	3W LED Illumination, Brightness Adjustable Kohler Illumination		Standard	Standard
	Illumination management system, LCD Displays Magnification, Brightness, Color Temperature adjustment, etc		Optional	Optional
Other Accessories	Dust Cover		Standard	Standard
	Power Adapter DC5V Input		Standard	Standard
	Instruction Manual		Standard	Standard
	Green Filter		Standard	Standard
	Blue/Yellow/Red Filter		Standard	Standard
	0.5× C-mount Adapter		Optional	Optional
	1× C-mount Adapter		Optional	Optional
	BPHB-1 Phase Contrast Kit		Optional	Optional
	Simple Polarizing Set		Optional	Optional
	FL-LED Epi-fluorescent Attachment		Optional	Optional
Mercury Fluorescent Illumination		Optional	Optional	
Reliability	Anti-mold Treatment on all the optics		Standard	Standard
Packing	1pc/carton, 36*26*46cm, gross weight: 8kg		Standard	Standard